

Trig Day 6 HW

Name: _____

Date: _____

1. In $\triangle CAT$, $a = 4$, $c = 5$, and $\cos T = \frac{1}{8}$. What is the length of t ?

2. In $\triangle ABC$, $a = 2$, $c = 6$, and $\cos B = \frac{1}{6}$. Find b .

3. In $\triangle ABC$, $a = 4$, $b = 3$, and $\cos C = -\frac{1}{2}$. What is the length of c ?

- A. 7 B. $\sqrt{13}$ C. $\sqrt{37}$ D. $\sqrt{19}$

4. In triangle ABC , $a = 5$, $b = 7$, and $c = 8$. The measure of $\angle B$ is

- A. 30° B. 60° C. 120° D. 150°

5. In $\triangle ABC$, $a = 1$, $b = 1$, and $c = \sqrt{2}$. What is the value of $\cos C$?

- A. 1 B. $\sqrt{2}$ C. $\frac{1}{2}\sqrt{2}$ D. 0

6. To the *nearest degree*, what is the measure of the largest angle in a triangle with sides measuring 10, 12, and 18 centimeters?

- A. 109 B. 81 C. 71 D. 32

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1.
Answer: 6
2.
Answer: 6
3.
Answer: C
4.
Answer: B
5.
Answer: D
6.
Answer: A